



HYDERABAD CASTINGS LIMITED

CENTRIFUGAL CASTINGS DIVISION

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Hyderabad Castings Limited is a specialist in the manufacturing of a wide range of Centrifugal Castings and it is supplying the quality castings in domestic as well as international market.

The Company offers extensive experience in Centrifugal Castings technology and it is well placed to serve the complete Centrifugal Casting requirements of any Industry.

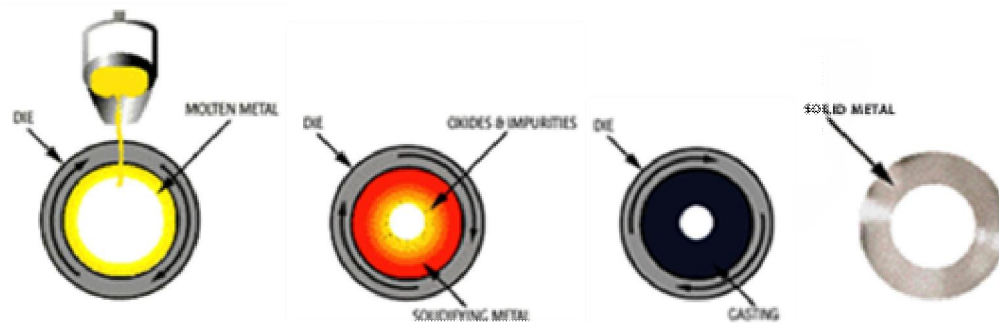
This is achieved by way of an efficient Sales force, the most up-to-date Research and Development Laboratory, well equipped manufacturing facility, as well as full fledged tool development setup.

With its depth of knowledge in Centrifugal Casting technology, Hyderabad Castings Limited is well placed to offer technical assistance when needed and to work with Customers on specific Centrifugal Casting requirements.

OUR ADVANTAGE

- In-house machining facility
- Ability to offer castings in **FULLY FINISHED** condition
- Choice of AS-CAST or Machined Castings
- Capable to handle any volume with short lead time
- In-house research & development department for die design
- Experienced manpower for production of defect free castings
- Relevant field trained staff of Engineers

PROCESS OF CENTRIFUGAL CASTING



The Process for centrifugal casting differs from static casting in that the permanent mold is rotated continuously about its axis at high speeds as the molten metal is poured.

The molten metal is centrifugally thrown towards the inside mold wall, where it solidifies after cooling. Centrifugal castings are formed under pressures 80-120 times that of gravity.

Such high pressures, combined with directional solidification, result in two unique characteristics of the centrifugal castings - castings exhibit a denser, closer grained structure and the physical properties such as tensile strength, yield strength, elongation, reduction of area, and other desirable properties are vastly improved. The improvement is up to 30% over conventional gravity or static casting methods.

PROCESS ADVANTAGES

- Complete elimination of blow holes
- Absence of porosity
- Denser grain structure
- Improvement in physical properties up to 30% over static castings
- A wide choice and freedom of material specifications
- Foundry defects are eliminated due to tighter controls, use of advanced production techniques and better materials
- Overall substantial reduction in "Total cost of procurement" due to all the above factors



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OUR SCOPE OF SUPPLY

Casting Size: Minimum ID — 50mm
Minimum OD — 70mm
Maximum ID — 475mm
Maximum OD — 500mm
Minimum Length — 5mm
Maximum Length — 3000mm

Alloys We Make : Low Alloy Steel
Plain Carbon Steel
Tool Steels
300 Series Stainless Steels
400 Series Stainless Steels
Nickle Based Super Alloys

MAJOR PRODUCTION FACILITIES

Machine imported from Tulsa, USA for making 3000mm long single piece casting
Standby Generator Power Melting Crucibles of 500kg, 1 ton & 1.5 tons
Well equipped Quality Department ERP system for total operations monitoring
In-house machining facilities Well Experienced Manpower
3D modelling Software for component/die development